$1.00

# OWNER'S GUIDE

## ASSEMBLY • OPERATION • MAINTENANCE • PARTS

# 26" HI-WHEEL SELF-PROPELLED ROTARY MOWER

## Model Number 121-560B000

190-560-000

## Important: Read Safety Rules and Instructions Carefully

Made in AMERICA

**WARNING:** This unit is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator.

In the State of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester for the muffler is available through your nearest engine authorized service dealer or contact the service department, P.O. Box 360900, Cleveland, Ohio 44136.

PRINTED IN U.S.A.

FORM NO. 770-7124F

# IMPORTANT

## RULES FOR SAFE OPERATION

THIS SYMBOL POINTS OUT IMPORTANT SAFETY INSTRUCTIONS WHICH, IF NOT FOLLOWED, COULD ENDANGER THE PERSONAL SAFETY AND/OR PROPERTY OF YOURSELF AND OTHERS. READ AND FOLLOW ALL INSTRUCTIONS IN THIS MANUAL BEFORE ATTEMPTING TO OPERATE YOUR LAWN MOWER. FAILURE TO COMPLY WITH THESE INSTRUCTIONS MAY RESULT IN PERSONAL INJURY. WHEN YOU SEE THIS SYMBOL— **HEED ITS WARNING.**

**DANGER:** **Your lawn mower was built to be operated according to the rules for safe operation in this manual. As with any type of power equipment, carelessness or error on the part of the operator can result in serious injury. If you violate any of these rules, you may cause serious injury to yourself or others.**

### TRAINING

1. Read this owner's guide carefully in its entirety before attempting to assemble or operate this machine. Be completely familiar with the controls and the proper use of this machine before operating it. Keep this manual in a safe place for future and regular reference and for ordering replacement parts.
2. Your rotary mower is a precision piece of power equipment, not a plaything. Therefore, exercise extreme caution at all times. Your unit has been designed to perform one job: to mow grass. Do not use it for any other purpose.
3. Never allow children under 14 years old to operate a power mower. Children 14 years old and over should only operate mower under close parental supervision. Only persons well acquainted with these rules of safe operation should be allowed to use your mower.
4. Keep the area of operation clear of all persons, particularly small children and pets. Stop engine when they are in the vicinity of your mower to help prevent blade contact or thrown object injury. Although the area of operation should be completely cleared of foreign objects, an object may have been overlooked and could be accidently thrown by the mower in any direction and cause serious personal injury to the operator or any others allowed in the area.

### PREPARATION

1. Thoroughly inspect the area where the equipment is to be used. Remove all stones, sticks, wire, bones and other foreign objects which could be picked up and thrown by the mower in any direction and cause serious personal injury to the operator or any others allowed in the area. Plan your mowing pattern to avoid discharge of material toward roads, sidewalks, bystanders and the like.
2. Always wear safety glasses or eye shields during operation or while performing an adjustment or repair, to protect eyes from foreign objects that may be thrown from the machine in any direction.
3. Wear sturdy, rough-soled work shoes and close-fitting slacks and shirts. Shirts and pants that cover the arms and legs and steel-toed shoes are recommended. Do not wear loose fitting clothes or jewelry. They can be caught in moving parts. Never operate a unit in bare feet, sandals, or sneakers.
4. Before working with gasoline, extinguish all cigarettes, cigars, pipes and other sources of ignition. Check the fuel level before starting the engine. Gasoline is an extremely flammable fuel. Do not fill the gasoline tank indoors, while the engine is running, or until engine has been allowed to cool for at least two minutes after running. Replace gasoline cap securely and wipe off any spilled gasoline before starting the engine as it may cause a fire or explosion.
5. Disengage the self-propelled mechanism or drive clutch on units so equipped before starting the engine.
6. The blade control handle is a safety device. Never attempt to bypass its operation. Doing so makes the safety device inoperative and may result in personal injury through contact with the rotating blade. The blade control handle must operate easily in both directions and automatically return to the disengaged position when released.
7. Never attempt to make a wheel or cutting height adjustment while the engine is running.
8. Never operate the mower in wet grass. Always be sure of your footing. A slip and fall can cause serious personal injury. Keep a firm hold on the handle and walk, never run. Mow only in daylight or in good artificial light.
9. For your safety, use the slope gauge included as part of this manual to measure slopes before operating this unit on a sloped or hilly area. If the slope is greater than 15° as shown on the slope gauge, do not operate this unit on that area or serious injury could result.

### OPERATION

1. Do not change the engine governor settings or overspeed the engine. Excessive engine speeds are dangerous.
2. Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times as the rotating blade can cause injury.
3. Stop the blade when crossing gravel drives, walks or roads.
4. After striking a foreign object, stop the engine, remove the wire from the spark plug, and thoroughly inspect the mower for any damage. Repair the damage before restarting and operating the mower.
5. If the equipment should start to vibrate abnormally, stop the engine and check immediately for the cause. Vibration is generally a warning of trouble.
6. Shut the engine off and wait until the blade comes to a complete stop before removing the grass catcher or unclogging the chute. The cutting blade continues to rotate for a few seconds after the engine is shut off. Never place any part of the body in the blade area until you are sure the blade has stopped rotating.
7. Before cleaning, repairing or inspecting, make certain the blade and all moving parts have stopped. Disconnect the spark plug wire, and keep the wire away from the spark plug to prevent accidental starting.
8. Do not run the engine indoors.
9. Never cut grass by pulling mower toward you. Mow across the face of slopes, never up-and-down. Exercise extreme caution when changing direction on slopes. Do not mow excessively steep slopes. Always be sure of your footing. A slip and fall can cause serious personal injury.
10. Never operate mower without proper guards, plates or other safety protective devices in place.
11. Muffler and engine become hot and can cause a burn. Do not touch.

### MAINTENANCE AND STORAGE

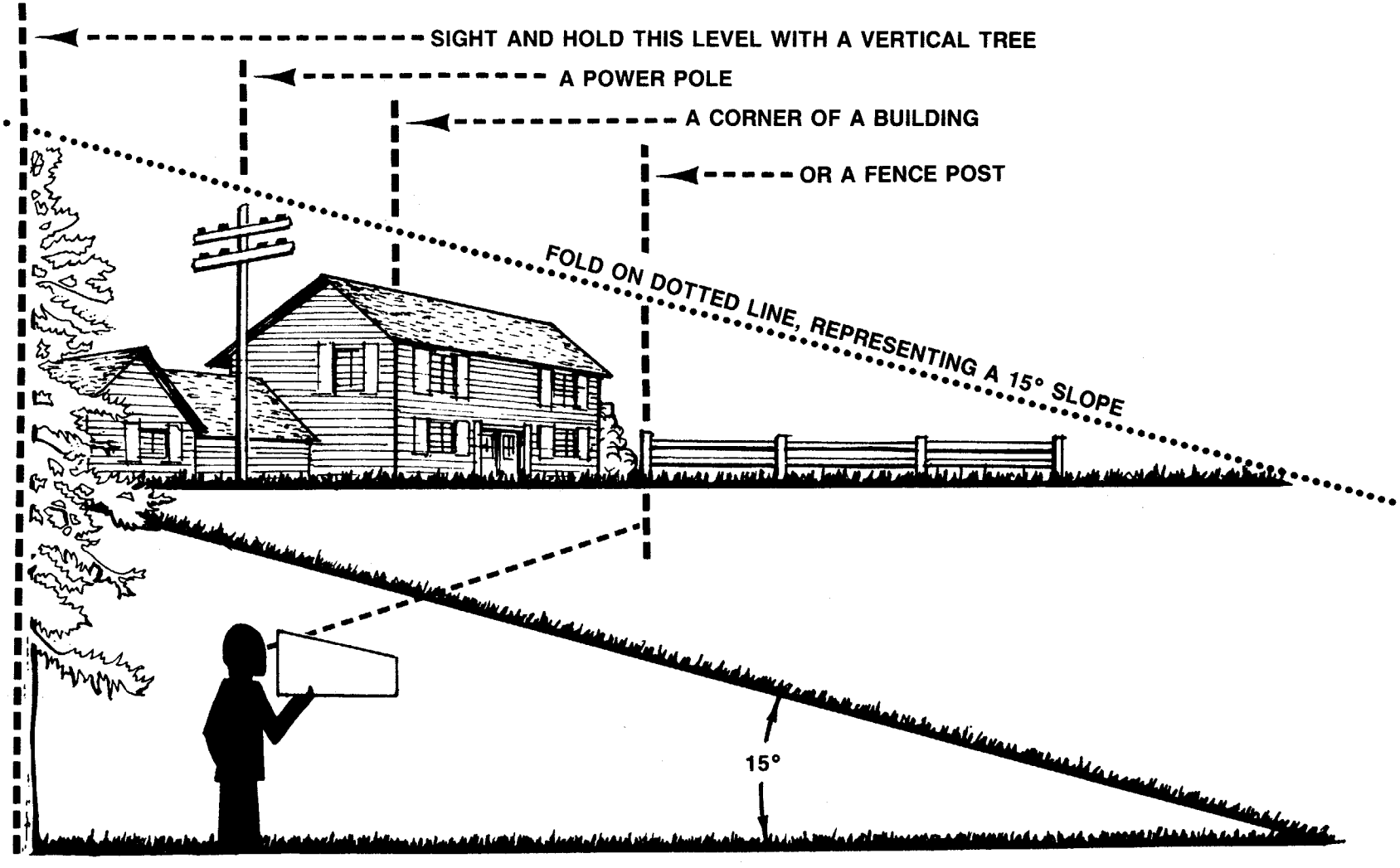
1. Check the blade and engine mounting bolts at frequent intervals for proper tightness. Also visually inspect blade for damage (e.g. bent, cracked). Replace with blade which meets original equipment specifications.
2. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
3. Never store the mower with gasoline in the tank or gas containers inside of a building where fumes may reach an open flame or spark (e.g. gas hot water heater). Allow the engine to cool before storing in any enclosure.
4. To reduce fire hazard, keep the engine free of grass, leaves and excessive oil.
5. Check the grass catcher bag frequently for wear or deterioration. Replace a worn or damaged bag immediately. For safety protection, replace only with new bag meeting original equipment specifications.

Cut Along This Line

# SLOPE GAUGE

(Keep this sheet in a safe place for future reference.)

## USE THIS SHEET AS A GUIDE TO DETERMINE SLOPES WHERE YOU MAY NOT OPERATE SAFELY.


SIGHT AND HOLD THIS LEVEL WITH A VERTICAL TREE
A POWER POLE
A CORNER OF A BUILDING
OR A FENCE POST
FOLD ON DOTTED LINE, REPRESENTING A 15° SLOPE
15°

**WARNING**

**Do not mow on inclines with a slope in excess of 15 degrees (a rise of approximately 2½ feet every 10 feet). A riding mower could overturn and cause serious injury. If operating a walk-behind mower on such a slope, it is extremely difficult to maintain your footing and you could slip, resulting in serious injury.**

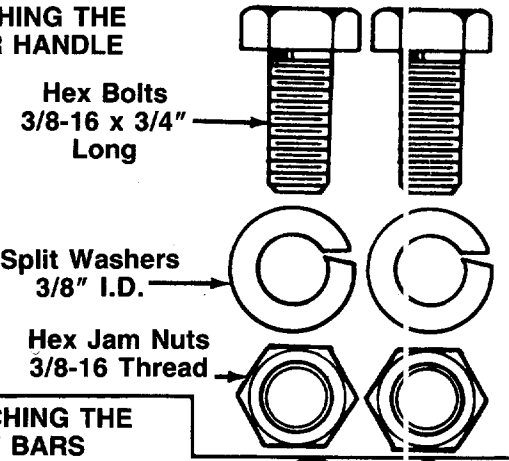
**Operate RIDING mowers up and down slopes, never across the face of slopes.**
**Operate WALK-BEHIND mowers across the face of slopes, never up and down slopes.**

# CONTENTS OF HARDWARE PACK/PARTS IDENTIFICATION

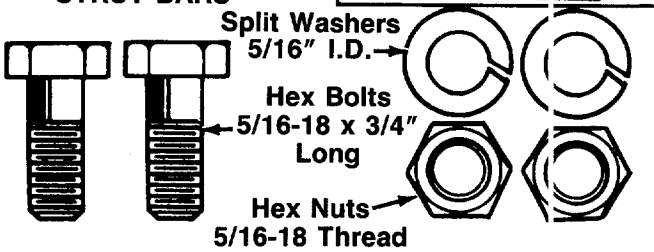
Remove this sheet from your owner's manual and lay the hardware on the illustration for identification purposes. After assembly, keep the Slope Gauge which is on the reverse side of this sheet for future use.

(Hardware pack may contain extra items which are not used on your unit.)

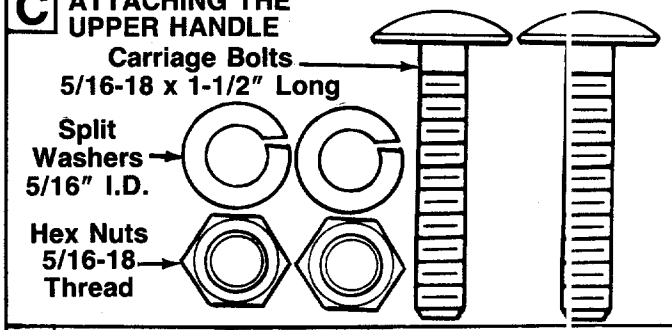
## A ATTACHING THE LOWER HANDLE



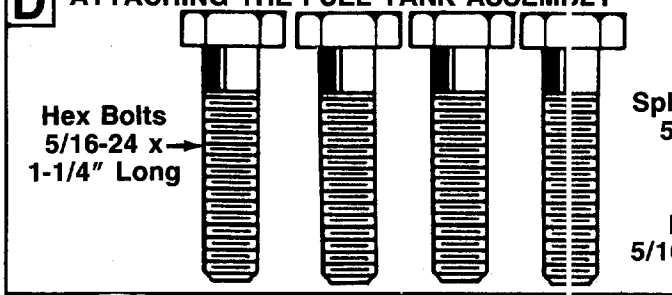

## B ATTACHING THE STRUT BARS

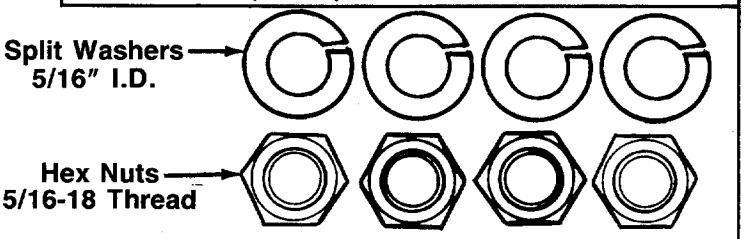


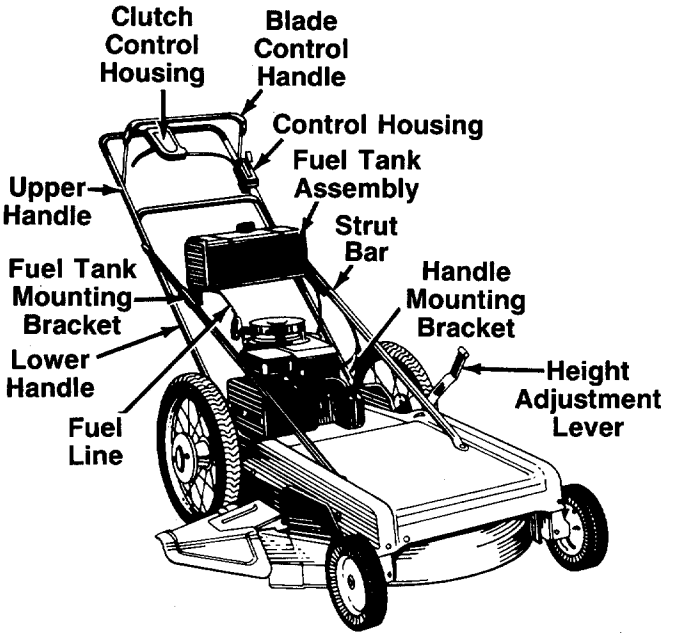

## C ATTACHING THE UPPER HANDLE




## D ATTACHING THE FUEL TANK ASSEMBLY

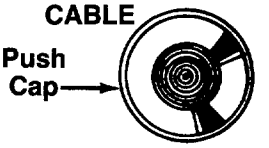


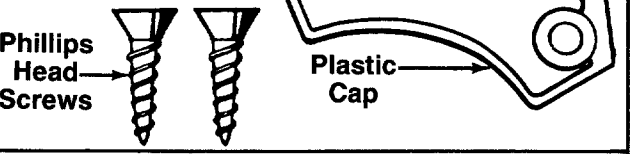




PARTS IDENTIFICATION

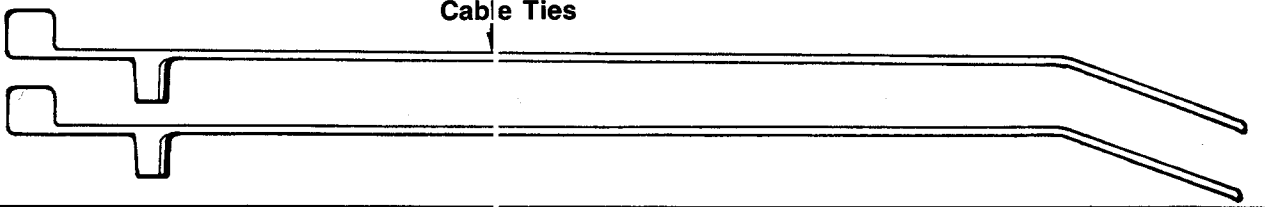
## E ATTACHING THE BRAKE/CLUTCH CABLE




## F ATTACHING THE DRIVE CLUTCH CONTROL CABLE




## G SECURING THE CABLES



Cut Along This Line

# ASSEMBLY INSTRUCTIONS

**IMPORTANT: This unit is shipped WITHOUT GASOLINE or OIL. After assembly, service engine with gasoline and oil as instructed in the separate engine manual packed with your unit.**

**NOTE: Reference to right or left hand side of the mower is observed from the operating position. Refer to parts identification illustration on page 4 for location of parts when assembling the mower.**

**Tools Required for Assembly**

(1) Phillips Head Screwdriver
(2) 1/2" Wrenches*
(1) 5/16" Wrench or Nutdriver*
(2) 9/16" Wrenches*
(1) Pair of Pliers
*Or two 6" Adjustable Wrenches

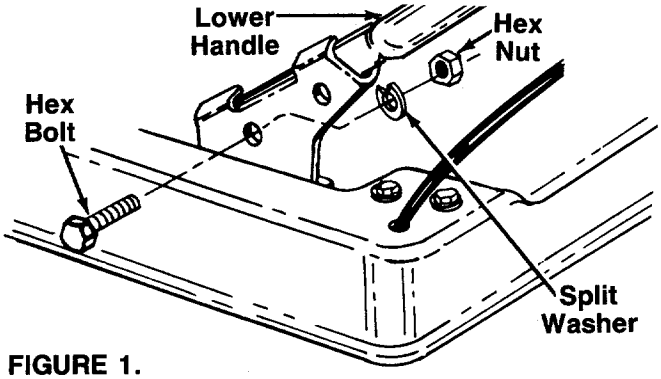



FIGURE 1.

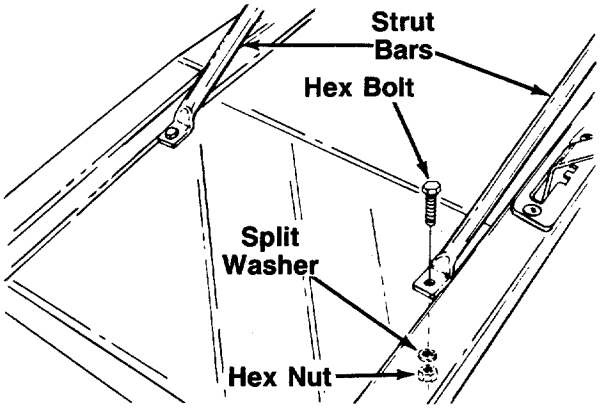



FIGURE 2.

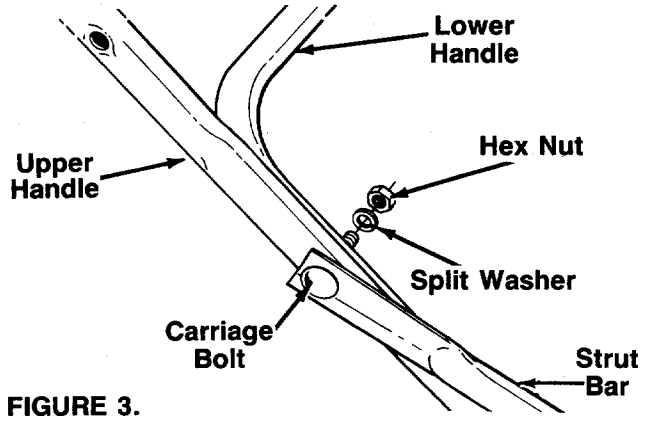



FIGURE 3.

## UNPACKING

1. Remove the lawn mower from the carton by opening the top flaps and lifting the unit out. Be careful of the staples. Make certain all parts and literature have been removed from the carton before the carton is discarded.
2. Disconnect and ground the spark plug wire against the engine. Check beneath the deck for any cardboard packaging. Remove if present.
3. Stretch out all control cables and place on the floor. Be careful not to bend or kink the cables at any time during assembly.
4. Remove page four from this manual and lay the contents of the hardware pack on the illustration for identification.

## ATTACHING THE LOWER HANDLE (Hardware A)

1. Make certain height adjustment lever, located on the left side of the frame, is in the lowest cutting height position for ease of assembly.
2. Place the end of the lower handle inside the handle mounting brackets on the mower. See figure 1. Make certain the instruction label on the lower handle can be read from the operating position.
3. Secure handle to the handle mounting brackets with hex bolts, split washers and hex nuts. Heads of the hex bolts are on the outside of the handle. See figure 1. Do not tighten at this time.

## ATTACHING THE STRUT BARS (Hardware B)

Attach the strut bars to the frame with hex bolts, split washers and hex nuts. The lock washers and hex nuts go beneath the frame. See figure 2. Do not tighten.

## ATTACHING THE UPPER HANDLE (Hardware C)

Place upper handle in position over lower handle. The control housing must be on the left hand side of the handle. Secure the strut bars, upper handle and lower handle using carriage bolts, split washers and hex nuts. See figure 3. Do not tighten.

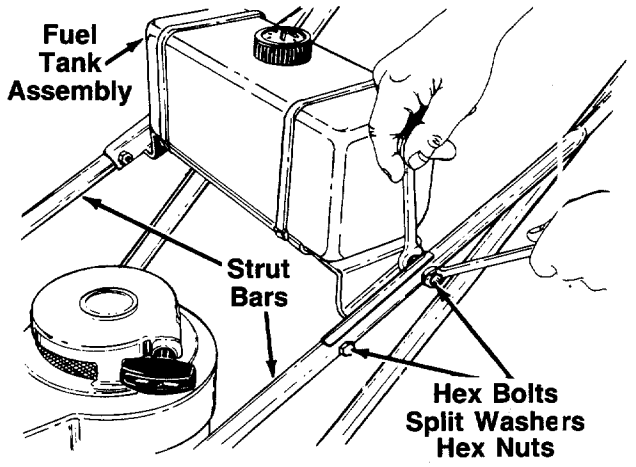



FIGURE 4.

## ATTACHING THE FUEL TANK ASSEMBLY
**(Hardware D)**

1. Place the fuel tank assembly in position on the strut bars as shown in figure 4. Secure fuel tank assembly to the strut bars using hex bolts, split washers and hex nuts. Heads of the hex bolts are on the outside of the unit. Tighten securely.
2. Tighten securely all bolts and nuts used to assemble the handles and strut bars.

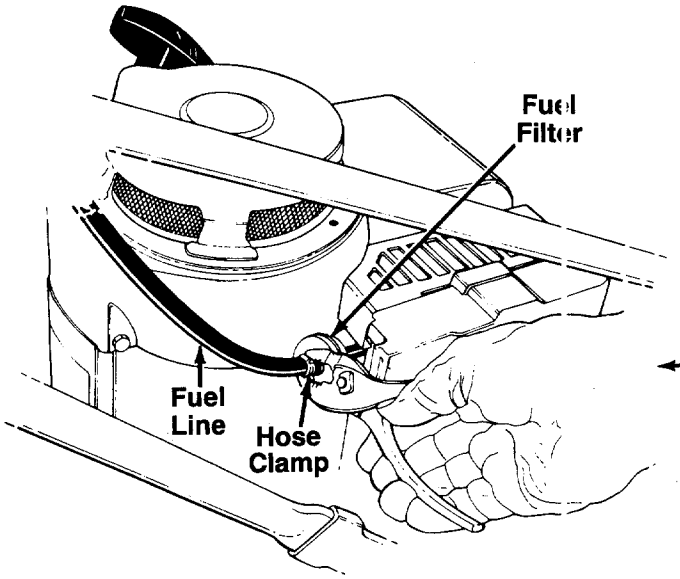



FIGURE 5.

3. The fuel line is already attached to the fuel shut-off valve, located beneath the fuel tank. Place the end of the fuel line over the end of the fuel filter (connected to the engine).

   Secure by squeezing the tabs of the hose clamp (already on the fuel line), and sliding it down over the end of the fuel filter. See figure 5.

## ATTACHING THE BRAKE/CLUTCH CABLE
**(Hardware E)**

The blade brake/clutch cable is the cable which has an "L" fitting on the loose end, and is attached to the brake/clutch underneath the deck.

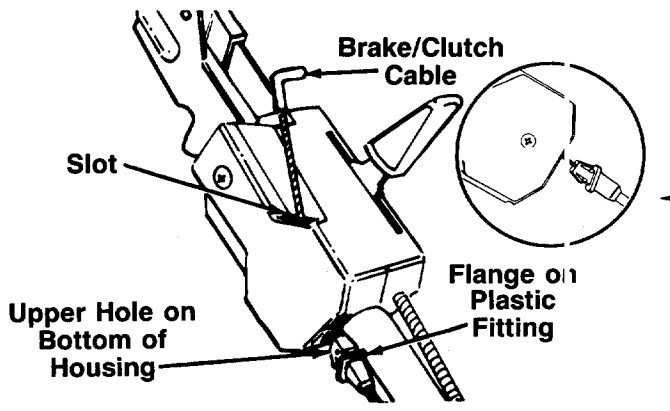



FIGURE 6.

1. Route the brake/clutch cable under the fuel tank mounting bracket and lower handle. Place end of cable into the upper hole on the bottom of the control housing, and through the slot on the side of the housing as shown. The angle of the plastic flange must be positioned downward as shown in figure 6. Be careful not to bend or kink the cable at any time.
2. Push the plastic flange until it locks into the control housing.

**WARNING: The cable must be assembled as shown for proper brake/clutch operation.**

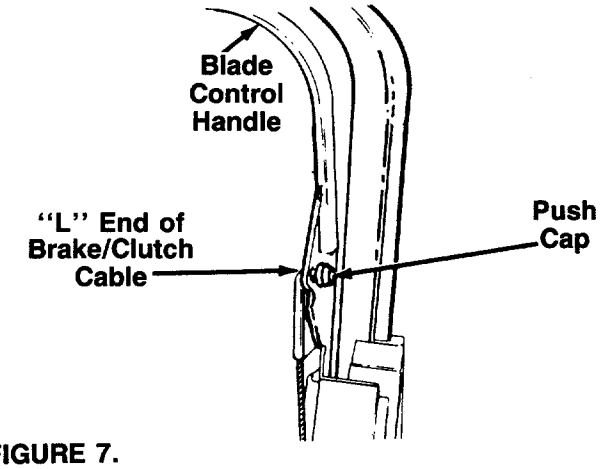



FIGURE 7.

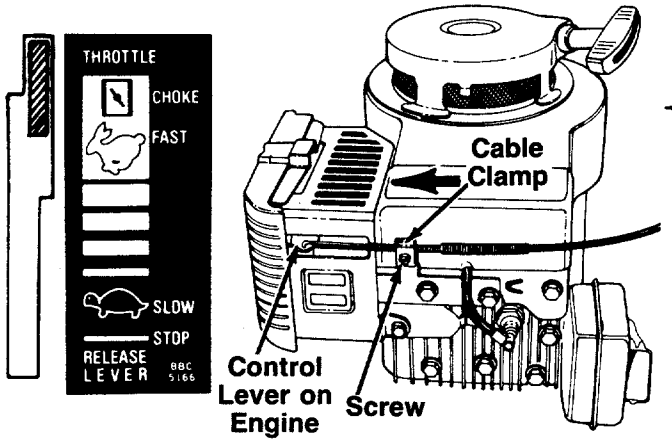



FIGURE 8.

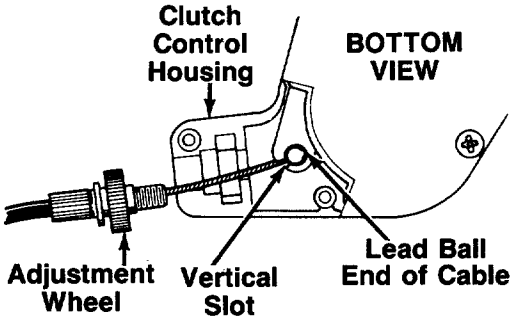



FIGURE 9.

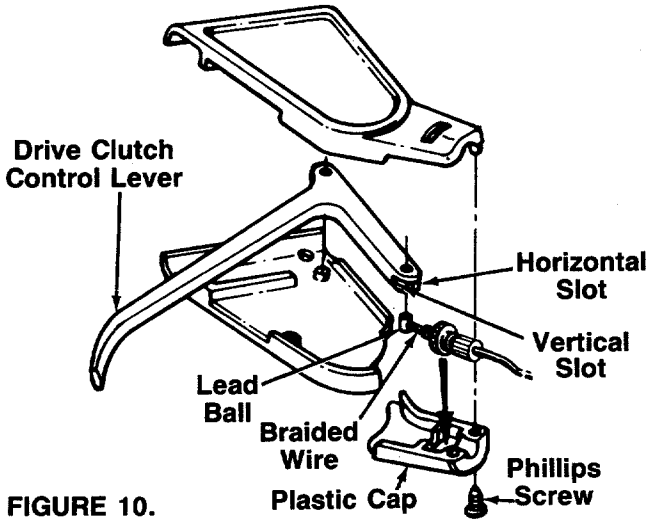



FIGURE 10.

3. Insert the "L" end of the brake/clutch cable into the hole in the blade control handle, from the inside to the outside as shown in figure 7. Hold the end of the cable, and press push cap on by hand.

## ATTACHING THE THROTTLE CABLE

1. Push the throttle control lever on the handle all the way forward to CHOKE position. See figure 8.
2. The throttle control cable is attached to the upper handle. Route the throttle control cable under the lower handle and over the fuel tank mounting bracket. Hook the "Z" end of the throttle control cable into the hole in the control lever on the engine. See figure 8.
3. Using a 5/16" wrench or nutdriver, remove the screw on the cable clamp shown in figure 8. Slip the control casing under the clamp. Replace the screw (casing should be above the screw), but do not tighten screw (cable must still move freely beneath the clamp).
4. Slide the control lever on the engine as far toward the **outside** of the engine as it will go as shown in figure 8. Tighten the screw to secure the throttle control cable in this position.

## ATTACHING THE DRIVE CLUTCH CONTROL CABLE (Hardware F)

The drive clutch control cable is attached to the transmission beneath the frame. Route the drive clutch cable over the fuel tank mounting bracket and under the lower handle. Attach the cable to the lever in the clutch control housing, located in the middle of the upper handle, as follows.

1. Place the lead ball end of the cable into the fitting provided in the end of the clutch control lever. Slip the braided wire into the vertical slot as shown in figure 9.
2. Slide the braided wire around in the horizontal slot. See figure 10.
3. Make certain the adjustment wheel is threaded onto the cable as far as possible as shown in figure 9. Place the adjustment wheel into the clutch control housing.
4. Secure the plastic cap to the clutch control housing using the two Phillips head screws. See figure 10.

**WARNING: Drive clutch adjustment must be checked before the unit is operated, as described in the operation section.**

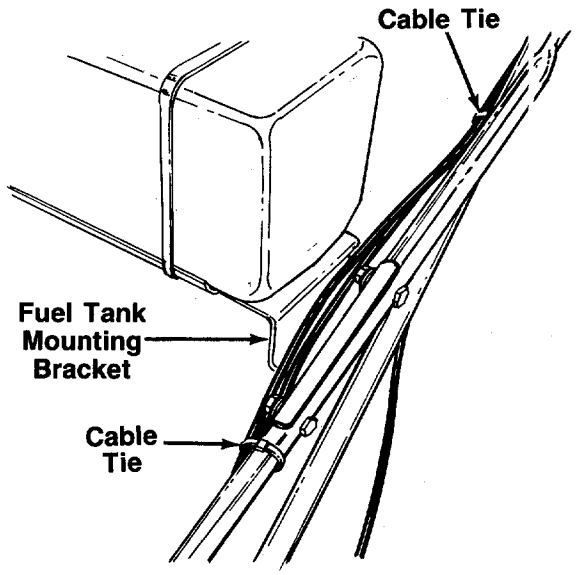



FIGURE 11.

## SECURING THE CABLES (Hardware G)

**WARNING: When attaching the control cables, the cables must be routed to avoid contact with all sharp edges and hot surfaces to prevent damage to the cables, which will render the controls inoperative.**

Secure the control cables to the left handle and strut bar as follows. See figure 11.

A. Insert post on cable tie into hole provided on the inside of the lower handle, above the fuel tank mounting bracket. Secure all the cables to the lower handle.

B. Using the other cable tie, secure the throttle and drive clutch cables to the left hand strut as shown in figure 11.

**NOTE:** *There is no hole provided in the strut bar to anchor the second cable tie. Simply position as shown in figure 11.*

C. Trim excess ends of cable ties.

## FINAL ASSEMBLY

1. Make certain **all** nuts and bolts are tightened securely.
2. Check the tire pressure. Recommended operating tire pressure should be thirty to thirty five p.s.i. After the unit is put into operation, check tire pressure periodically.

# CONTROLS

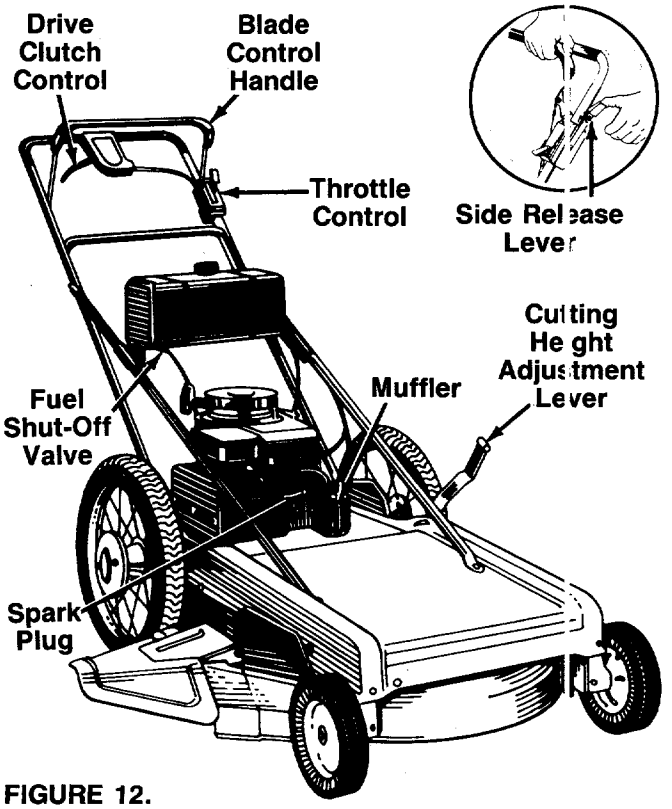



FIGURE 12.

## THROTTLE CONTROL

The throttle is located on the left side of handle. It controls engine speed. See figure 12.

## DRIVE CLUTCH CONTROL

Squeezing the drive clutch control engages the drive mechanism to the rear wheels. Releasing the clutch control stops the rear wheels from driving. Release the drive clutch control to slow down when negotiating an obstacle, making a turn or stopping. See figure 12.

## BLADE CONTROL

**WARNING: This control mechanism is a safety device. Never attempt to bypass its operations.**

The blade control is located on the upper handle of the mower. The blade control handle engages and disengages the blade.

To engage the blade, pull the side release lever away from the unit. See figure 12. Pull the blade control handle against the upper handle. Release side lever.

Release the blade control handle to stop the blade from turning.

# OPERATION

TO REDUCE THE RISK OF INJURY, DO NOT OPERATE MOWER UNLESS REAR TRAILING SHIELD AND THIS GUARD OR ENTIRE GRASS CATCHER IS IN ITS PROPER PLACE.
DANGER
KEEP HANDS and FEET AWAY

**FIGURE 13.**

Keep hands and feet away from the chute area on cutting deck. See figure 13.

**NOTE:** *For shipping purposes your mower is set with the wheels in a low cutting height position. For best results raise the cutting position until it is determined which height is best for your lawn. See cutting height adjustment section.*

## GAS AND OIL FILL-UP

**Service the engine with gasoline and oil** as instructed in the separate engine manual packed with your mower. Read instructions carefully.

**NOTE:** *Your unit has been shipped without oil; however, a small amount of oil may be present from the factory. Do not overfill.*

**WARNING: Never fill fuel tank indoors, with engine running or until the engine has been allowed to cool for at least two minutes after running.**

## BEFORE STARTING

Before each use, check for proper drive clutch operation by performing the following before starting the engine:

With the drive clutch control released, push mower forward. It should move freely. **Pull mower backward. It should move freely.**

If it does not and the rear wheels tend to lock up, the clutch may not be releasing completely. Do not start the engine until corrections have been made. Check the control cable for severe bend, kinks and binding, or grass build-up in the pulley groove. Correct and adjust as required.

## TO START ENGINE

**WARNING: When starting the unit for the first time, face the mower against a solid object such as a wall, fence, etc. Start the unit, and if it shows any signs of motion with the drive clutch control disengaged, shut the engine off immediately. Check the position of the drive clutch control cable. The plastic fitting must be assembled in the first adjustment position inside the housing, all the way to the right, as shown in figure 9.**

1. Attach spark plug wire to spark plug.
2. Open fuel shut-off valve, located beneath the fuel tank. See figure 12.
3. Move throttle control lever to CHOKE position.
4. With the blade brake/clutch handle **released,** crank engine by pulling recoil starter with a quick firm pull. Do not pull out so far that rope stops with a jerk as this will cause rope failure. Do not allow rope and handle to snap back into place.
5. After engine starts, move throttle control to desired engine speed.

## TO ENGAGE THE BLADE

1. Start engine as instructed above. Allow the engine to warm up for **one minute** before attempting to engage the blade.
2. To engage the blade, pull the side release lever away from the unit. Pull the blade brake/clutch control handle down against the upper handle. Release the side lever. See figure 12.

**NOTE:** *If a warm engine falters or stalls when attempting to engage the blade, refer to Carburetor Adjustment Section of this owner's manual.*

3. Release the blade brake/clutch control handle to stop the blade from turning.

**NOTE:** ***Always release the blade control handle before stopping the engine.*** *If the engine begins to stall, release the blade control handle immediately.*

## TO STOP

1. The engine is stopped by moving the throttle control lever to STOP position.
2. The blade is stopped by releasing the blade control handle located on the handle.
3. Ground movement is stopped by releasing the drive clutch control, located on the handle.

4. Disconnect spark plug wire from the spark plug and ground to prevent accidental starting while equipment is unattended.
5. Close fuel shut-off valve when unit is not in use to prevent fuel leakage into the carburetor.

**NOTE:** *If any problems are encountered, refer to the Trouble Shooting Chart on page 20.*

## USING YOUR ROTARY MOWER

Be sure that lawn is clear of stones, sticks, wire, or other objects which could damage lawn mower or engine. Such objects could be accidently thrown by the mower in any direction and cause serious personal injury to the operator and others.

Appropriate clothing should be worn when cutting brush or heavy weeds. Safety shoes and safety glasses are highly recommended.

For the best results, do not cut wet grass because it tends to stick to the underside of the mower, preventing proper discharge of grass clippings, and could cause you to slip and fall. New grass, thick grass or wet grass may require a narrower cut. Blade speed should be adjusted to the condition of the lawn.

The best mowing pattern is one that allows the clippings to discharge towards the uncut part of the lawn. This permits recutting of the clippings to further pulverize them. When cutting high weeds, discharge towards cut portion, then recut at right angles to first direction.

For best results, cut off one-third or less of the total length of the grass. Lawn should be cut in the fall as long as there is growth.

This mower is designed to be operated at full throttle to give you the best cut and do the most effective job of bagging the cut grass.

**WARNING: If you strike a foreign object, stop the engine. Remove wire from spark plug, thoroughly inspect the mower for any damage, and repair the damage before restarting and operating the mower. Extensive vibration of the mower during operation is an indication of damage. The unit should be promptly inspected and repaired.**

# ADJUSTMENTS

**WARNING: Do not at any time make any adjustment to lawn mower without first stopping engine and disconnecting spark plug wire.**

## DRIVE CLUTCH CONTROL ADJUSTMENT

Use the adjustment wheel located in the clutch control housing to tighten the drive belt if mower does not self-propel with the drive clutch control engaged, or if drive belt is slipping (unit hesitates while engine maintains the same speed). See figure 14.

In addition, the adjustment wheel may also be used to determine the position in which the drive clutch control is engaged. If it is more comfortable to have the drive engaged with the lever further away from the handle, tighten the drive belt.

Make certain to retest the unit for neutral as instructed in the Operation Section. Move the adjustment wheel in the opposite direction to loosen the drive belt if necessary.

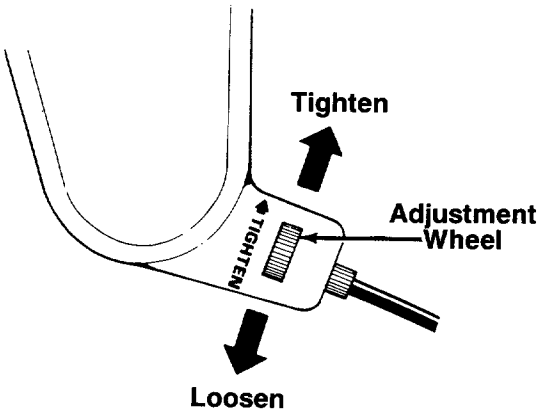



**FIGURE 14.**

## CUTTING HEIGHT ADJUSTMENT

The height adjustment handle is located on the left side of the frame. It is used to raise or lower the deck to one of five cutting heights, from 1" to 3½". Move the handle to the right and then forward or backward to change cutting heights. See figure 15.

For rough or uneven lawns, move the height adjustment handle to a position which will give a higher cutting height.

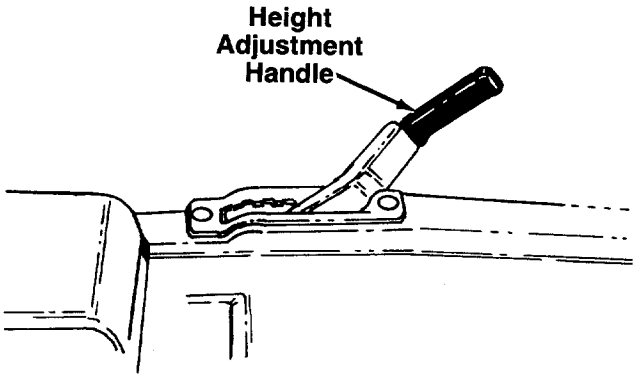



**FIGURE 15.**

## THROTTLE

The throttle control wire assembly can be adjusted if necessary. Loosen the screw on the cable clamp on the engine. Adjust as instructed in step 4 of "Attaching the Throttle Control Cable" in Assembly Instructions.

## CARBURETOR ADJUSTMENTS

**WARNING: If any adjustments are made to the engine while the engine is running (e.g. carburetor), disengage all clutches and blades. Keep clear of all moving parts. Be careful of heated surfaces and muffler.**

**Minor carburetor adjustment may be required to compensate for differences in fuel, temperature, altitude and load.** Refer to the separate engine manual packed with your mower.

**NOTE:** *If a warm engine falters or stalls when attempting to engage the blade, the carburetor mixture should be adjusted 1/8 turn richer (counterclockwise).*

The carburetor should be adjusted with the air cleaner in place and the blade control handle in the blade disengaged position.

**NOTE:** *A dirty air cleaner will cause an engine to run rough. Be certain air cleaner is clean before adjusting carburetor. Refer to the separate engine manual.*

# LUBRICATION

**WARNING: Always stop engine and disconnect spark plug wire before cleaning, lubricating or doing any kind of work on lawn mower.**

**Wheels**—Lubricate the wheel bearings at least once a season with light oil. Also, if the wheels are removed for any reason, lubricate the surface of the axle bolt and the inner surface of the wheel with light oil. A 4 oz. plastic bottle of light oil lubricant is available. Order part number 737-0170. Engine oil may also be used.

**Blade Control**—Lubricate the pivot points on the blade control handle and the cable at least once a season with light oil. The control must operate freely in both directions.

**Chute Deflector**—The torsion spring and pivot point should be lubricated periodically with light oil to prevent any rust or binding. Deflector must work freely.

**Engine**—Follow engine manual for lubrication instructions.

**Throttle**—Periodically lubricate throttle control lever and throttle wire assembly with a few drops of light oil for ease of operation.

**Transmission**—The transmission is pre-lubricated and sealed at the factory. It does not require checking. If disassembled for any reason, fill with 2 ounces of Alvania grease, part number 737-0168.

**Pivot Points**—Lubricate all pivot points and linkages at least once a season with light oil.

# MAINTENANCE

**WARNING: Be sure to disconnect and ground the spark plug wire before performing any repairs or maintenance.**

**NOTE:** *When tipping the unit, empty the fuel tank and keep engine spark plug side up.*

## TROUBLE SHOOTING

Refer to page 20 of this manual for trouble shooting information.

## CUTTING BLADE

### A. Removal for Sharpening or Replacement

**WARNING: Be sure to disconnect and ground the spark plug wire before working on the cutting blade to prevent accidental engine starting. Protect hands by using heavy gloves or a rag to grasp the cutting blade.**

1. Remove the large bolt and belleville washer which hold the blade and adapter to the blade spindle. See figure 16.

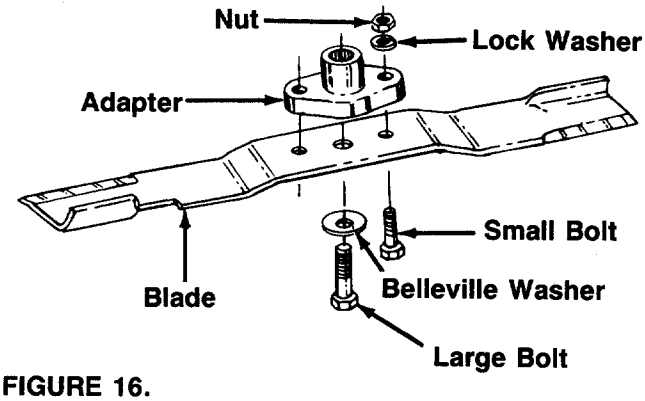



**FIGURE 16.**

2. Remove the blade and adapter from the spindle.
3. If the blade or blade adapter needs replacing, remove the two small bolts, lock washers and nut which hold the blade to the adapter.

**NOTE:** *Periodically inspect the blade adapter for cracks, especially if you strike a foreign object. Replace when necessary.*

### B. Sharpening

Remove the cutting blade by following the directions of the preceding section.

When sharpening the blade, follow the original angle of grind as a guide. It is **extremely important** that each cutting edge receives an equal amount of grinding to prevent an unbalanced blade. An unbalanced blade will cause excessive vibration when rotating at high speeds, may cause damage to the mower and could break, causing personal injury.

The blade can be tested for balance by balancing it on a round shaft screwdriver. Remove metal from the heavy side until it balances evenly.

**NOTE:** *It is recommended that the blade always be removed from the adapter for the best test of balance.*

### C. Reassembly

Before reassembling the blade and the blade adapter to the unit, lubricate the blade spindle and the inner surface of the blade adapter with light oil. Lubricating the bolt holes, bolts and inner surface of the nuts with light oil is also recommended. A 4 oz. plastic bottle of light oil lubricant is available. Order part number 737-0170. Engine oil may also be used.

When replacing the blade, be sure to install the blade with the side of the blade marked "Bottom" (or with part number) facing the ground when the mower is in the operating position.

**Blade Mounting Torque**

3/8" Dia. Bolt 375 in. lb. min., 450 in. lb. max
5/16" Dia. Bolt 150 in. lb. min., 250 in. lb. max.

To insure safe operation of your unit, **all** nuts and bolts must be checked periodically for correct tightness.

## DECK

The underside of mower deck should be cleaned after each use to prevent a buildup of grass clippings, leaves, dirt or other matter. If this debris is allowed to accumulate, it will invite rust and corrosion, and may cause an uneven discharge of grass clippings at the next cutting.

The deck may be cleaned by tilting the mower and scraping clean with a suitable tool (make certain the spark plug wire is disconnected).

**NOTE:** *Do not use water to clean the underside of the deck as damage to the blade clutch could result.*

## FUEL FILTER

Your unit is equipped with a replaceable in-line fuel filter. Replace filter whenever contamination or discoloration is noticed. Order replacement filter through your engine authorized service dealer.

## ENGINE

**Refer to separate engine manual for all engine maintenance instructions.**

Maintain **engine oil** as instructed in the separate engine manual packed with your unit. Read and follow instructions carefully.

Service **air cleaner** every 25 hours under normal conditions. Clean every few hours under extremely dusty conditions. Poor engine performance and flooding usually indicates that the air cleaner should be serviced.

The **spark plug** should be cleaned and the gap reset once a season. Spark plug replacement is recommended at the start of each mowing season; check engine manual for correct plug type and gap specifications.

**Clean the engine** regularly with a cloth or brush. Keep the cooling system (blower housing area) clean to permit proper air circulation which is essential to engine performance and life. Be certain to remove all grass, dirt and combustible debris from muffler area.

## BELT REMOVAL AND REPLACEMENT

**Preparation**

1. Disconnect the spark plug wire and ground against the engine.
2. Drain the oil and gasoline from the unit.
3. Tip the unit on its left side, and block securely.

**Deck Belt**

1. Loosen the belt guard shown in figure 17 and move it away from the engine pulley.
2. Roll belt off engine pulley.
3. Remove belt from deck pulley.
4. Reassemble new belt, following instructions in reverse order.

**NOTE:** *Upon reassembly, belt guard must be 1/8" away from engine pulley, and positioned as shown in figure 17.*

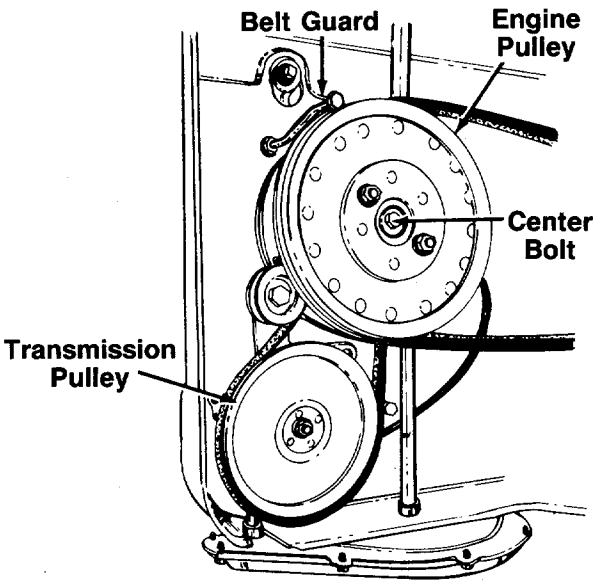



**FIGURE 17.**

**Drive Belt**

1. Remove deck belt as instructed in previous section.
2. Remove the engine pulley as follows. See figures 17 and 18.
   a. Remove the air cleaner from the engine.
   b. Remove three screws which secure the blower housing to the engine, and remove the blower housing.

c. Insert a screwdriver into the notch on the flywheel to keep the crankshaft from turning as you remove the center bolt from the engine pulley. See figure 18.

d. Pull engine pulley (with clutch/brake housing assembly attached) from the engine crankshaft. Be careful not to lose the two spacers on the crankshaft.

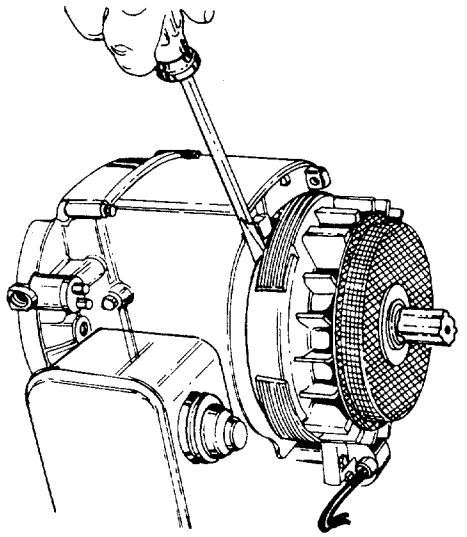


**FIGURE 18.**

3. Remove the hex bolt (which acts as a belt keeper) shown in figure 19.
4. Remove the belt from between the idler pulley and the belt keeper on idler arm.

**NOTE:** *It is necessary to push on the spring-loaded idler pulley so the belt keeper can be seen.*

5. Pull the belt from inside the brake/clutch. Remove it from the transmission pulley.

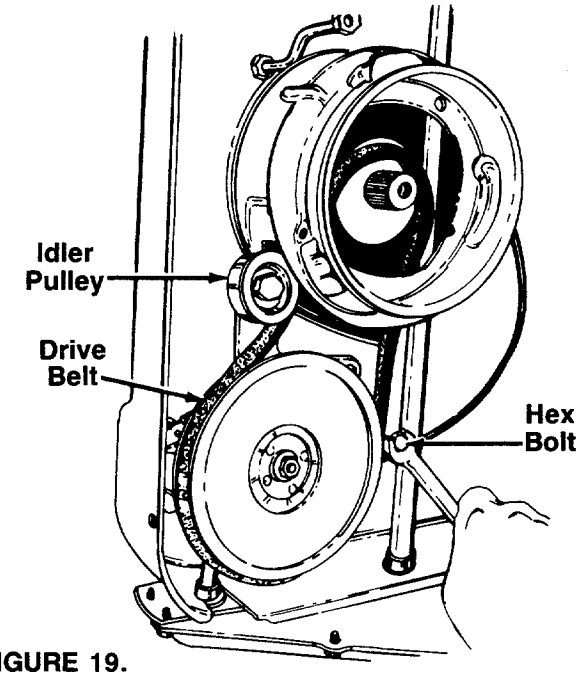



**FIGURE 19.**

6. Reassemble new drive belt, following instructions in reverse order.

**IMPORTANT:** Make certain the two spacers are in place on the engine crankshaft between the two pulley halves. Belt must be routed between the two pulley halves.

## INSTALLATION OF TIRE TO RIM

**WARNING: The following procedure must be followed when removing or installing a tire to the rim.**

1. Be sure rim is clean and rust free.
2. Lubricate both the tire and rim generously.
3. Never inflate to over 30 p.s.i. to seat beads. Excessive inflation pressure when seating beads may cause tire/rim assembly to burst with force sufficient to cause serious injury.

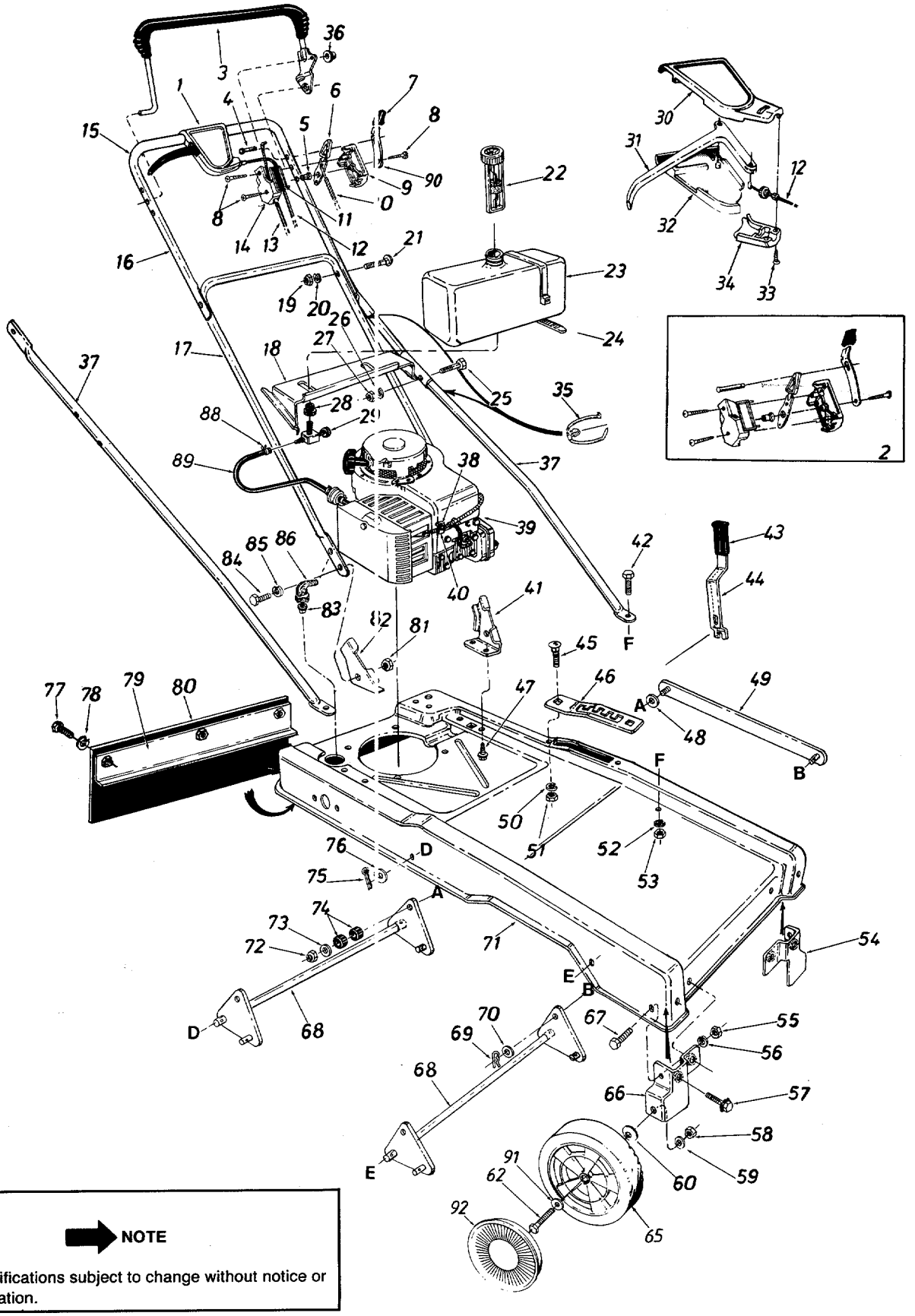
# OFF-SEASON STORAGE

The following steps should be taken to prepare lawn mower for storage.

1. Clean and lubricate mower thoroughly as described in the lubrication instructions.
2. Refer to engine manual for correct engine storage instructions.
3. Coat mower's cutting blade with chassis grease to prevent rusting.
4. Store mower in a dry, clean area.

**NOTE:** *When storing any type of power equipment in an unventilated or metal storage shed, care should be taken to rustproof the equipment. Using a light oil or silicone, coat the equipment, especially the bearings and cables.*

# Model 560B




**NOTE**

Specifications subject to change without notice or obligation.

# Model 560B

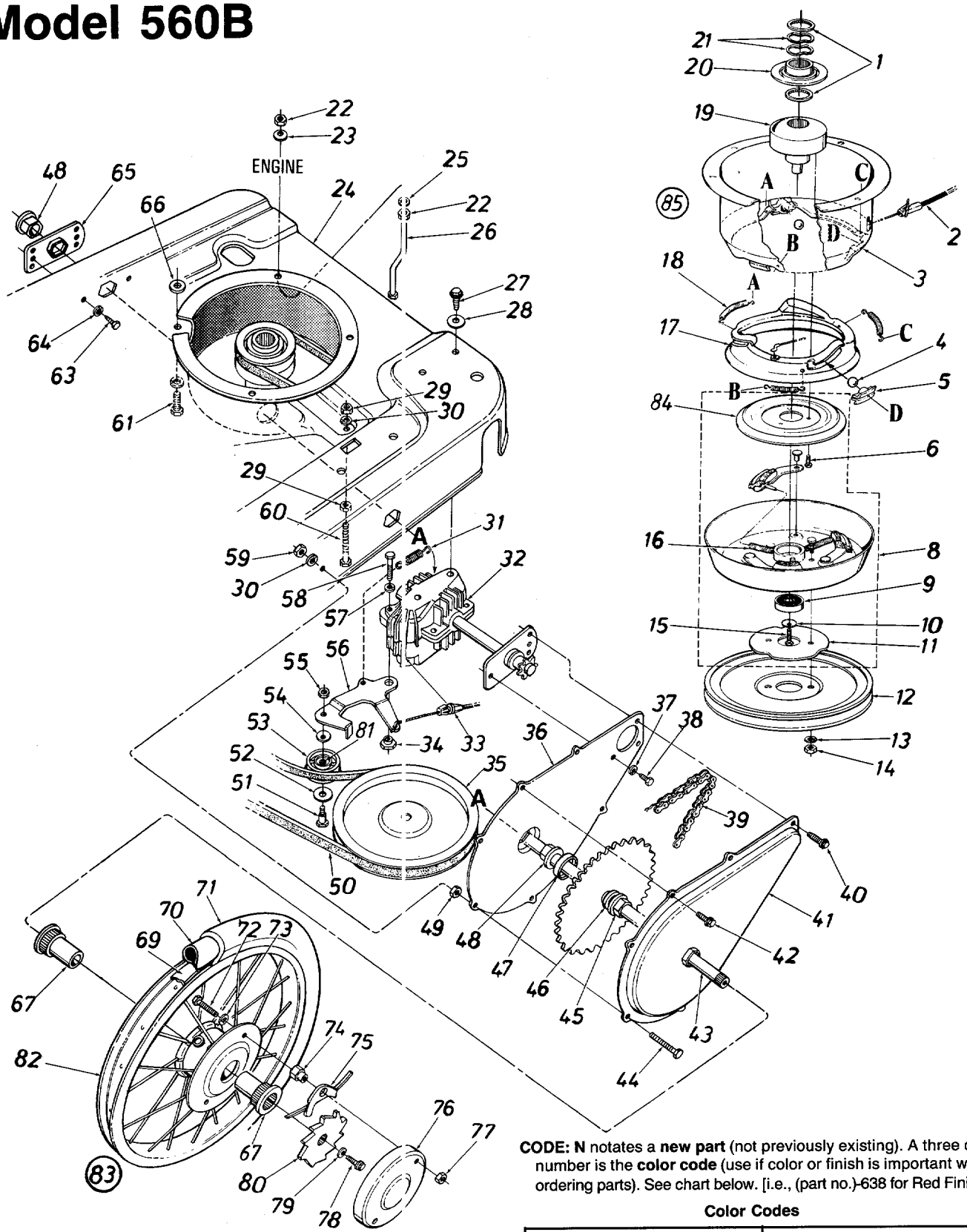
## PARTS LIST FOR MODEL 560B HI-WHEEL SELF-PROPELLED MOWER

| REF. NO. | PART NO. | CODE | DESCRIPTION |
|---|---|---|---|
| 2 | 753-0431 | | Control Housing Comp. |
| 3 | 731-0609 | | Control Handle Ass'y. |
| 4 | 731-0607 | | Lock Pin |
| 5 | 731-0524 | | Control Disc Pin |
| 6 | 731-0528A | | Throttle Control Lever |
| 7 | 720-0190 | | Spring Lever Knob |
| 8 | 710-0796 | | Truss Mach. Hi-B Tap Scr. #12 x 1.50" Lg. |
| 9 | 731-0817A | | Control Panel Half |
| 10 | 746-0631 | | Throttle Control Wire 43" Lg. |
| 11 | 777-5811 | | Control Label—Throttle |
| 12 | 746-0712A | N | Self-Propelled Cable 44" Lg. |
| 13 | 746-0405 | | Drive Clutch Cable—46" Lg. |
| 14 | 731-0816A | N | Clutch Panel Half |
| 16 | 749-0439A | | Upper Handle |
| 17 | 749-0504C | | Lower Handle |
| 18 | 14426 | | Gas Tank Mounting Brkt. |
| 19 | 712-0267 | | Hex Nut 5/16-18 Thd.* |
| 20 | 736-0119 | | L-Wash. 5/16" I.D.* |
| 21 | 710-0262 | | Carriage Bolt 5/16-18 x 1.50" Lg.* |
| 22 | 723-0155 | | Gas Gauge 1¾-6 x 5.50" Lg. |
| 23 | 751-0225 | | Gas Tank |
| 24 | 726-0209 | | Cable Tie 30.6" Lg. |
| 25 | 710-0158 | | Hex Bolt 5/16-24 x 1.25" Lg.* |
| 26 | 736-0119 | | L-Wash. 5/16" I.D.* |
| 27 | 712-0123 | | Hex Nut 5/16-24 Thd.* |
| 28 | 735-0149 | | Bushing—Gas Tank |
| 29 | 751-0171 | | Fuel Shut-Off Valve w/Screen |
| 30 | 731-1057 | | Control Cover Half—Upper |
| 31 | 731-0620 | | Control Lever |
| 32 | 731-1058 | | Control Cover Half—Lower |
| 33 | 710-0841 | | Flat "C" Sunk Hd. Tap Scr. #10 x .75" Lg. |
| 34 | 731-1059 | | Cable Mounting Cap |
| 35 | 726-0240 | | Cable Tie |
| 36 | 726-0245 | | Push Cap |
| 37 | 749-0697A | | Strut .75" O.D. x 43.44" Lg. |
| 38 | 710-0436 | | Hex Sems Scr. #10-32 x .62" Lg. |
| 39 | — | | Engine—5 H.P. |
| 40 | 751-0442 | | Casing Clamp |
| 41 | 12577A | | Handle Mount Brkt.—L.H. |
| 42 | 710-0118 | | Hex Bolt 5/16-18 x .75" Lg.* |
| 43 | 720-0142 | | Grip—Black |
| 44 | 15342 | | Lift Handle |
| 45 | 710-0260 | | Carriage Bolt 5/16-18 x .62" Lg.* |
| 46 | 16507 | | Lift Handle Support Brkt. |
| 47 | 710-0603 | | Hex Wash. Hd. B-Tap Scr. 5/16-18 x .50 |
| 48 | 736-0235 | | Fl-Wash. .406" I.D. x 1.25" O.D. |
| 49 | 15331 | | Connecting Link Ass'y. |
| 50 | 736-0119 | | L-Wash. 5/16" I.D.* |
| 51 | 712-0267 | | Hex Nut 5/16-18 Thd.* |
| 52 | 736-0119 | | L-Wash. 5/16" I.D.* |
| 53 | 712-0267 | | Hex Nut 5/16-18 Thd.* |
| 54 | 10293 | | Wheel Brkt. Ass'y.—L.H. |
| 55 | 712-0267 | | Hex Nut 5/16-18 Thd.* |
| 56 | 736-0119 | | L-Wash. 5/16" I.D.* |
| 57 | 710-0198 | | Hex Sems Bolt 5/16-18 x .75" Lg. |
| 58 | 712-0375 | | Hex Cent. L-Nut 3/8-16 Thd. |
| 59 | 736-0169 | | L-Wash. 3/8" I.D.* |
| 60 | 736-0105 | | Bell-Wash. .400" I.D. x .88" O.D. |
| 62 | 738-0102 | | Front Axle Bolt |
| 65 | 734-1512A | | Wheel Ass'y. Comp. 8" x 2" |
| 66 | 10294 | | Wheel Brkt. Ass'y.—R.H. |
| 67 | 710-0198 | | Hex Sems Bolt 5/16-18 x .75" Lg. |
| 68 | 16497 | | Lift Brkt. Shaft Ass'y. |
| 69 | 714-0104 | | Intern. Cotter Pin 5/16" Dia. |
| 70 | 736-0300 | | Fl-Wash. .385" I.D. x .88" |
| 71 | 16505 | 638 | Hi-Wheel Frame |
| 72 | 712-0116 | | Hex Ins. L-Nut 3/8-24 Thd. |
| 73 | 736-0300 | | Fl-Wash. .385" I.D. x .88" |
| 74 | 735-0126 | | Rubber Wash. .33" I.D. x .87" O.D. |
| 75 | 714-0115 | | Cotter Pin 1/8" Dia. x 1" Lg.* |
| 76 | 736-0272 | | Fl-Wash. .51" I.D. x 1.0" |
| 77 | 710-0258 | | Hex Bolt ¼-20 x .62" Lg.* |
| 78 | 736-0329 | | L-Wash. ¼" I.D.* |
| 79 | 16563A | | Retaining Strip Ass'y. 3" x 15" Lg. |
| 80 | 731-0811 | | Rear Flap 7.5 x 20" Lg. |
| 81 | 712-0342 | | Hex Nut 3/8-16 Thd.* |
| 82 | 12578A | | Handle Mount Brkt.—R.H. |
| 83 | — | | Part of Engine |
| 84 | 710-0216 | | Hex Bolt 3/8-16 x .75" Lg.* |
| 85 | 736-0169 | | L-Wash. 3/8" I.D.* |
| 86 | 737-0125 | | 90 Deg. Elbow Male to Female 3/8 |
| 88 | 726-0207 | | Hose Clamp—.406" Dia. |
| 89 | 751-0173A | | Fuel Line 15" Lg. |
| 90 | 732-0401 | | Lockout Lever |
| 91 | 736-0232 | | Wave Wash..53" I.D. x .78" O.D. |
| 92 | 731-0981A | | Hub Cap |

*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

NOTE: The engine is not under warranty by the mower manufacturer. . . If repairs or service is needed on the engine, please contact your nearest authorized engine service outlet. Check the "Yellow Pages" of your telephone book under "Engines—Gasoline."

# Model 560B




**CODE: N** notates a **new part** (not previously existing). A three digit number is the **color code** (use if color or finish is important when ordering parts). See chart below. [i.e., (part no.)-638 for Red Finish].

**Color Codes**

| | |
|---|---|
| 460—Green Flake | 630—Blue |
| 483—Charcoal Grey | 635—Grey |
| 498—Yellow | 636—White |
| 499—Beige | 637—Black |
| 606—Orange | 638—Red |
| 629—Silver Flake | 640—Green |

# Model 560B

## PARTS LIST FOR MODEL 560B HI-WHEEL SELF-PROPELLED MOWER

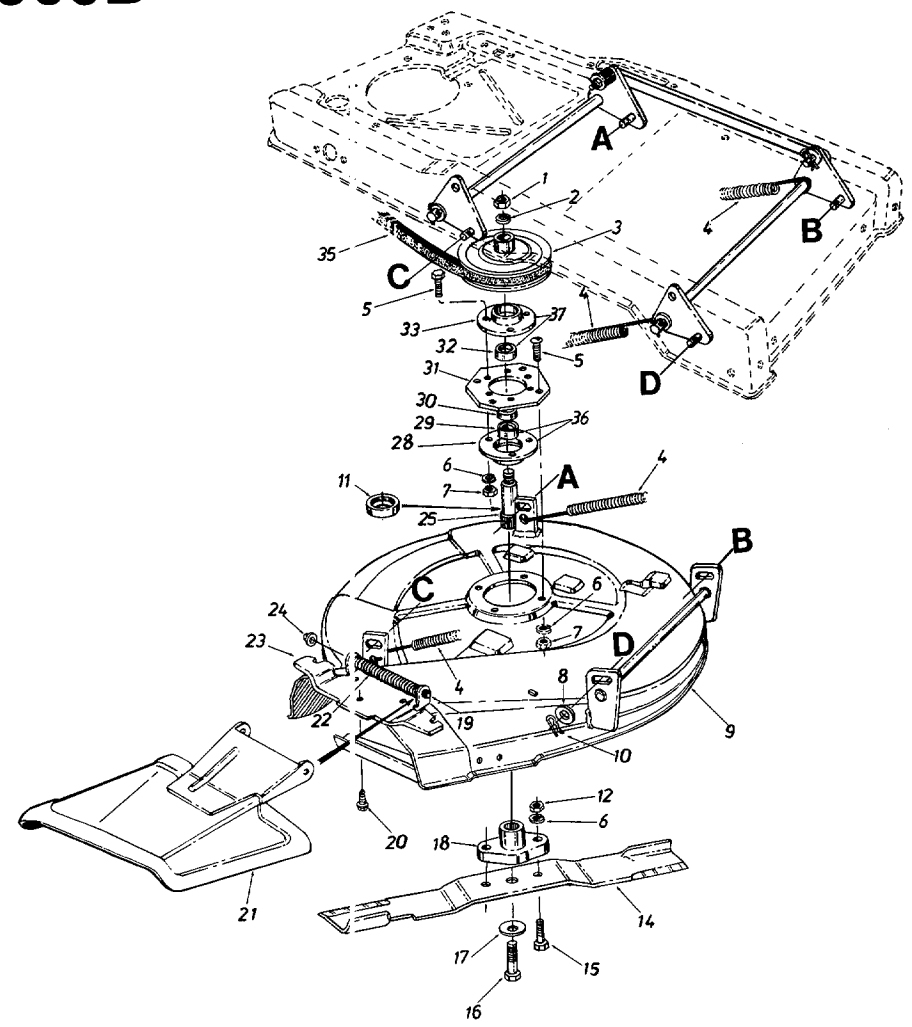
| REF. NO. | PART NO. | CODE | DESCRIPTION | REF. NO. | PART NO. | CODE | DESCRIPTION |
|---|---|---|---|---|---|---|---|
| 1 | 736-0409 | | Washer 1.0" I.D. x 1.2" O.D. | 40 | 710-0599 | | Hex Wash. TT-Tap Scr. ¼-20 x .50" Lg. |
| 2 | 746-0405 | | BBC Clutch Cable 46" Lg. | | | | |
| 3 | 16509 | | Clutch Housing | 41 | 16503 | | 45 Tooth Chain Case |
| 4 | 741-0326 | | Steel Ball .500" Dia. | 42 | 710-0352 | | Hex B-Tap Scr. ¼ x .38" Lg. |
| 5 | 731-0520 | | Ball Block | 43 | 713-0402 | | Rear Axle Ass'y. 26.82" Lg. |
| 6 | 710-0599 | | Hex Wash. TT-Tap Cl. Scr. ¼-20 x .50" Lg. | 44 | 710-0281 | | Hex Bolt ¼-28 x .88" Lg. |
| | | | | 45 | 741-0481 | | Hex Flange Brg. .631" I.D. x .320 |
| 8 | 717-0889 | | Clutch Blade Housing Ass'y. (Also Incl. Ref. 19) | 46 | 736-0256 | | Fl-Wash. .635" I.D. x 1.0" O.D. |
| 9 | 741-0124 | | Ball Brg. .669" I.D. x 1.574" O.D. | 47 | 748-0313 | | Spacer .630" I.D. x 1.250" O.D. |
| | | | | 48 | 741-0413 | | Hex Flange Brg. .631" I.D. x .720 |
| 10 | 736-0412 | | Bell-Wash. .44" I.D. x .87" O.D. | | | | |
| 11 | 14302 | | Blade Disc. | 49 | 712-0314 | | Hex Jam Nut ¼-28 Thd. |
| 12 | 756-0483 | | 5/8 "V"-Pulley 1.58" I.D. x 8.0" O.D. | 50 | 754-0327 | | "V"-Belt |
| | | | | 51 | 738-0691 | | Shld. Bolt .375" Dia. x .400 Lg. |
| 13 | 736-0169 | | L-Wash. 3/8" I.D.* | 52 | 736-0344 | | Fl-Wash. .390" I.D. x 1.00" O.D. |
| 14 | 712-0328 | | Hex Nut 3/8-24 Thd.* | 53 | 756-0447 | | Fl-Idler Plastic 1.50" Dia. x .48 |
| 15 | 710-1002 | | Hex Bolt 7/16-20 x 2.0" Lg.— Gr. 5 | 54 | 736-0270 | | Bell-Wash. .265" I.D. x .75" O.D. |
| | | | | 55 | 712-0138 | | Hex Nut ¼-28 Thd. |
| 16 | 732-0527 | | Comp. Spring .33" O.D. x 2.05" Lg. | 56 | 16502 | | Idler Brk't. Ass'y. |
| | | | | 57 | 736-0329 | | L-Wash. ¼" I.D. |
| 17 | 719-0283 | | Brake Cup Cone | 58 | 710-0106 | | Hex Bolt ¼-20 x 1.25" Lg.* |
| 18 | 732-0397 | | Extension Spring .35" O.D. x 1.75" Lg. | 59 | 712-0138 | | Hex Nut ¼-28 Thd. |
| | | | | 60 | 710-0501 | | Hex Bolt ¼-20 x 2.00" Lg.* |
| 19 | 756-0504 | | Fixed Pulley MBC Adapter | 61 | 710-0654 | | Hex Wash. Hd. TT-Tap Scr. 3/8-16 x 1.0" Lg. |
| 20 | 756-0503 | | Movable Pulley Half | | | | |
| 21 | 736-0447 | | Wave Wash. 1" I.D. x 1.5" | 63 | 710-0352 | | Hex B-Tap Scr. ¼ x .38" Lg. |
| 22 | 712-0267 | | Hex Nut 5/16-18 Thd.* | 64 | 736-0329 | | L-Wash. ¼" I.D.* |
| 23 | 736-0242 | | Bell-Wash. .336" I.D. x .860" O.D. | 65 | 16500A | | Hex Bearing Cup |
| | | | | 66 | 736-0185 | | Fl-Wash. .406" I.D. x .734" O.D. |
| 24 | 16505 | 638 | Hi-Wheel Frame | 67 | 741-0485 | | Flange Bearing .630" I.D. x 2.83" Lg. |
| 25 | 736-0119 | | L-Wash. 5/16" I.D.* | | | | |
| 26 | 710-0973 | | Belt Guard 5/16" Bolt | 69 | 734-1400 | | Rimstrip 16 x 7/8 |
| 27 | 710-0603 | | Hex Wash. Hd. B-Tap Scr. 5/16-18 x .50" Lg. | 70 | 734-1397 | | Inner Tube 16 x 2.12 |
| | | | | 71 | 734-1396 | | Chevron Tire 16 x 2.125 |
| 28 | 736-0219 | | Bell-Wash. .400" I.D. x 1.13" O.D. | 72 | 710-0376 | | Hex Bolt Special 5/16-18 x 1.0" Lg. |
| 29 | 712-0287 | | Hex Nut ¼-20 Thd.* | 73 | 736-0104 | | Intern. L-Wash. 5/16" I.D. |
| 30 | 736-0329 | | L-Wash. ¼" I.D.* | 74 | 712-0329 | | Special Hex Nut 5/16-18 Thd. |
| 31 | 732-0357 | | Extension Spring .33" I.D. x 1.12" Lg. | 75 | 748-0315 | | Pawl and Spring Ass'y. |
| | | | | 76 | 14967 | | Wheel Cover 4.75" I.D. |
| 32 | 717-0417 | | Transmission Comp. (See Breakdown) | 77 | 712-0267 | | Hex Nut 5/16-18 Thd.* |
| | | | | 78 | 710-0812 | | Hex Bolt ¼-20 x .75" Lg. (Gr. 5) |
| 33 | 746-0712A | N | Self-Propelled Cable x 44" Lg. | 79 | 736-0270 | | Bell-Wash. .265" I.D. x .75" O.D. |
| 34 | 738-0440 | | Shld. Spacer .375" Dia. x .170 | 80 | 748-0312 | | Wheel Ratchet 2.92" O.D. |
| 35 | 756-0330 | | Fl-Pulley 5.06" O.D. | 81 | 741-0482 | | Needle Brg. .375" x .31" |
| 36 | 16504 | | 45 Tooth Chain Cover | 82 | 734-1399 | | Rim Ass'y. Only 16.0" x 2.1 |
| 37 | 736-0329 | | L-Wash. ¼" I.D.* | 83 | 734-1398 | | Wheel Ass'y. Comp. 16 x 2.12 |
| 38 | 710-0352 | | Hex B-Tap Scr. ¼ x .38" Lg. | 84 | 14304A | | Clutching Cone |
| 39 | 713-0257 | | #48 Chain .500" Pitch x 52 Links | 85 | 717-0841B | | Clutch Ass'y. |

**NOTE:** The use of any accessory on this rotary mower other than those manufactured by the mower manufacturer is **not** recommended. GRASS CATCHER Model 560 is available for the mower shown in this manual.

**WARNING: To reduce the risk of injury, do not operate mower unless rear trailing shield and guard or entire grass catcher are in their proper places.**

**NOTE:** Under normal usage bag material is subject to wear, and should be checked periodically. Be sure any replacement bag complies with the mower manufacturer's recommendations.

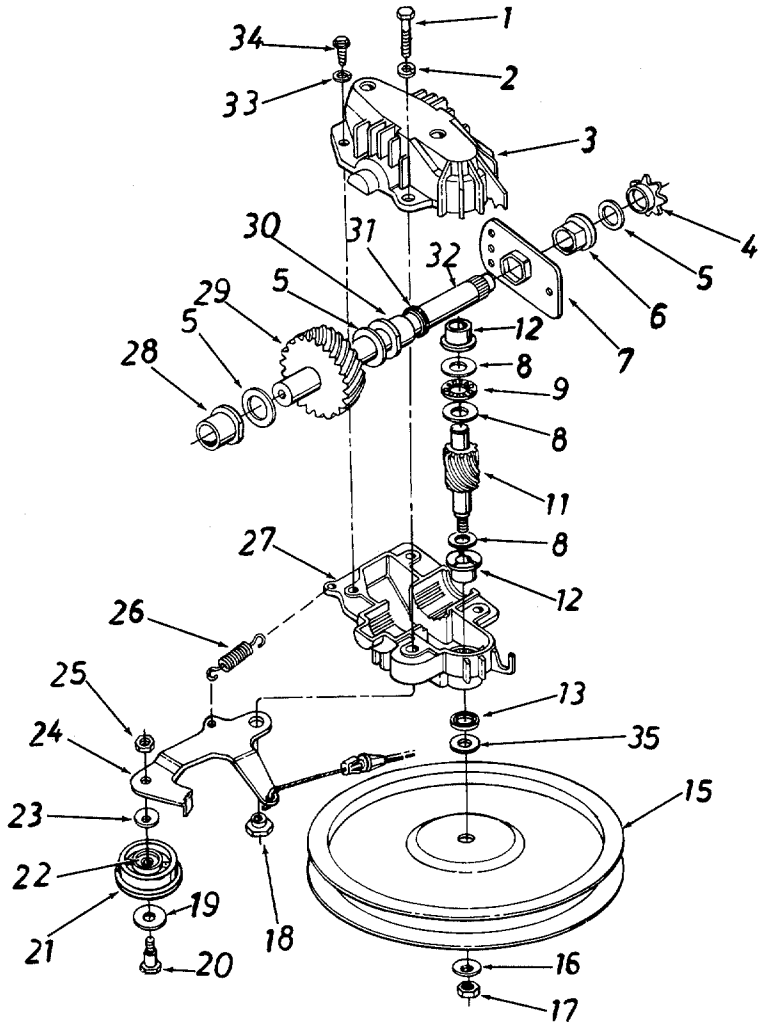
# Model 560B




**PARTS LIST FOR MODEL 560B HI-WHEEL SELF-PROPELLED MOWER**

| REF. NO. | PART NO. | CODE | DESCRIPTION | REF. NO. | PART NO. | CODE | DESCRIPTION |
|---|---|---|---|---|---|---|---|
| 1 | 712-0318 | | Hex Jam Nut 5/16-18 Thd. | 18 | 748-0300 | | Blade Adapter |
| 2 | 736-0317 | | Bell-Wash. .630" I.D. x 1.25" O.D. | 19 | 711-0571 | | Hinge Pin |
| | | | | 20 | 710-0599 | | Hex Wash. Hd. TT-Scr. ¼-20 |
| 3 | 756-0484A | | 5/8" "V"-Pulley .75" I.D. x 9.5" | 21 | 11571 | | Chute Cover Ass'y. |
| 4 | 732-0529 | | Extension Spring .56" O.D. x 10.5 | 22 | 732-0261 | | Torsion Spring |
| | | | | 23 | 11396 | | Adapter Plate |
| 5 | 710-0118 | | Hex Bolt 5/16-18 x .75" Lg.* | 24 | 726-0106 | | Cap Speed Nut ¼" Rod |
| 6 | 736-0119 | | L-Wash. 5/16" I.D.* | 25 | 738-0578 | | Blade Spindle 4.42" Lg. |
| 7 | 712-0267 | | Hex Nut 5/16-18 Thd.* | 28 | 08253 | | Bearing Housing 1.85 |
| 8 | 736-0272 | | Fl-Wash. .510" I.D. x 1.0" O.D. | 29 | 741-0919 | | Ball Brg. .787" I.D. x 1.85" O.D. |
| 9 | 16499 | 638 | 26" Deck Ass'y. | 30 | 750-0456 | | Spacer 1.0" O.D. x .790" I.D. x .350" Lg. |
| 10 | 714-0101 | | Inter. Cotter Pin ½" Dia. | | | | |
| 11 | 13703 | | Bearing Shield | 31 | 16490 | | Spindle Mounting Plate |
| 12 | 712-0123 | | Hex Nut 5/16-24 Thd.* | 32 | 741-0919 | | Ball Brg. .787" I.D. x 1.85" O.D. |
| 14 | 742-0147 | | Blade 26" | 33 | 15296 | | Open Brg. Housing 1.85 |
| 15 | 710-0888 | | Hex Bolt Special 5/16-24 x 1.0" Lg. | 35 | 754-0326 | | "V"-Belt |
| | | | | 36 | 741-0163 | | Brg. Hsg. Ass'y. (Incl. Ref. 28 & 29) |
| 16 | 710-0152 | | Hex Bolt 3/8-24 x 1.00" Lg. | | | | |
| 17 | 736-0356 | | Bell-Wash. .391" I.D. x 1.38" O.D. | 37 | 15297 | | Brg. Hsg. Ass'y. (Incl. Ref. 32 & 33) |

# Model 560B




**PARTS LIST FOR MODEL 560B HI-WHEEL SELF-PROPELLED MOWER**

| REF. NO. | PART NO. | CODE | DESCRIPTION | REF. NO. | PART NO. | CODE | DESCRIPTION |
|---|---|---|---|---|---|---|---|
| 1 | 710-1062 | | Hex Bolt ¼-20 x 1.25″ Lg. w/Patch | 19 | 736-0344 | | Fl-Wash. .390″ I.D. x 1.0″† |
| 2 | 736-0329 | | L-Wash. ¼″ I.D.* | 20 | 738-0691 | | Shld. Bolt .375″ Dia. x .40″† |
| 3 | 717-0418A | | Upper Transmission Hsg. Half | 21 | 756-0447 | | Fl-Idler Plastic 1.50″ Dia. x .48† |
| 4 | 713-0400 | | #48 Sprocket 7 Tooth x ½ Pitch | 22 | 741-0482 | | Needle Brg. .375″ x .31† |
| 5 | 736-0336 | | Fl-Wash. 5/8″ I.D. x .030 | 23 | 736-0270 | | Bell-Wash. .265″ I.D. x .75″† |
| 6 | 741-0413 | | Hex Flange Brg. .631″ I.D. | 24 | 16502 | | Idler Brk't. Ass'y.† |
| 7 | 16500A | | Hex Bearing Cup | 25 | 712-0138 | | Hex Patch L-Nut ¼-28 Thd.† |
| 8 | 736-0314 | | Thrust Wash. .382″ I.D. x .70″ O.D. | 26 | 732-0357 | | Extension Spring 1.12″ Lg.† |
| 9 | 741-0479 | | Thrust Bearing .375″ I.D. x .812″ O.D. | 27 | 717-0419A | | Lower Transmission Hsg. Half |
| 11 | 717-1216 | | 11 Tooth Helical Gear | 28 | 741-0415 | | Flange Bearing .566 Dia. |
| 12 | 748-0208A | | Flange Bearing | 29 | 717-0422 | | 33 Tooth Helical Gear |
| 13 | 721-0212 | | Oil Seal | 30 | 741-0414 | | Flange Bearing .629 Dia. |
| 15 | 756-0330A | | Fl-Pulley 5.06″ O.D.† | 31 | 721-0213 | | Oil Seal .625 Dia. |
| 16 | 736-0270 | | Bell-Wash. .265″ I.D. x .75″† | 32 | 738-0607 | | Gear Sprocket Shaft |
| 17 | 712-0351 | | Hex Lock Nut ¼-28 LH Thd.† | 33 | 736-0722 | | L-Wash. #10 |
| 18 | 738-0440 | | Shld. Spacer .375″ Dia. x .170† | 34 | 710-0436 | | Hex B-Tap Scr. #10 x .62″ |
| | | | | 35 | 736-0410 | | Hex Washer .26″ x .88″† |
| | | | | — | 717-0417B | | Transmission Comp. |

†Not Part of Transmission Complete

# TROUBLE SHOOTING GUIDE

| Trouble | Possible Cause(s) | Corrective Action |
|---|---|---|
| Engine fails to start | 1. Blade control handle disengaged.<br>2. Spark plug wire disconnected.<br>3. Throttle control lever not in CHOKE position.<br>4. Fuel shut-off valve closed.<br>5. Fuel tank empty, or stale fuel.<br>6. Blocked fuel line.<br>7. Faulty spark plug.<br>8. Engine flooded. | 1. Engage blade control handle.<br>2. Connect wire to spark plug.<br>3. Move throttle lever to CHOKE position.<br>4. Open fuel shut-off valve.<br>5. Fill tank with clean, fresh gasoline.<br>6. Clean fuel line.<br>7. Clean, adjust gap or replace.<br>8. Remove spark plug, dry the plug, and crank engine with plug removed and throttle in off position. Replace spark plug, connect wire and resume starting procedures. |
| Engine runs erratic | 1. Unit running in CHOKE position.<br>2. Spark plug wire loose.<br>3. Blocked fuel line or stale fuel.<br>4. Vent in gas cap plugged.<br>5. Water or dirt in fuel system.<br>6. Dirty air cleaner.<br>7. Carburetor out of adjustment. | 1. Move throttle lever to FAST position.<br>2. Connect and tighten spark plug wire.<br>3. Clean fuel line; fill tank with clean, fresh gasoline.<br>4. Clear vent.<br>5. Drain fuel tank. Refill with fresh fuel.<br>6. Clean air cleaner.†<br>7. Adjust carburetor.† |
| Engine overheats | 1. Engine oil level low.<br>2. Air flow restricted.<br>3. Carburetor not adjusted properly. | 1. Fill crankcase with proper oil.<br>2. Remove blower housing and clean.†<br>3. Adjust carburetor.† |
| Occasional skip (hesitates) at high speed | 1. Carburetor idle speed too slow.<br>2. Spark plug gap too close.<br>3. Carburetor idle mixture adjustment improperly set. | 1. Adjust carburetor.†<br>2. Adjust gap to .030″.<br>3. Adjust carburetor.† |
| Idles poorly | 1. Spark plug fouled, faulty or gap too wide.<br>2. Carburetor improperly adjusted.<br>3. Dirty air cleaner. | 1. Reset gap to .030″ or replace spark plug.<br>2. Adjust carburetor.†<br>3. Clean air cleaner.† |
| Excessive vibration | 1. Cutting blade loose or unbalanced.<br>2. Bent cutting blade. | 1. Tighten blade and adapter. Balance blade.<br>2. Replace blade. |
| Mower will not drive | 1. Drive clutch cable out of adjustment.<br>2. Belt worn and/or stretched. | 1. Adjust drive clutch cable (see adjustment section).<br>2. Replace belt. |
| Mower will not discharge grass | 1. Engine speed too low.<br>2. Wet grass.<br>3. Excessively high grass. | 1. Set throttle between 3/4 and full throttle.<br>2. Do not mow when grass is wet; wait until later to cut.<br>3. Mow once at a high cutting height, then mow again at desired height or make a narrower cutting swath (1/2 width). |
| Uneven cut | 1. Wheels not positioned correctly.<br>2. Dull blade. | 1. Place all four wheels in same height position.<br>2. Sharpen or replace blade. |

†Refer to separate engine manual packed with your unit.
**Note:** *For repairs beyond the minor adjustments listed above, contact your local authorized service dealer.*